

AMENDMENTS TO THE CLAIMS

Please amend Claims 47 and 75 and add new Claim 81 as follows:

1-46. (Cancelled)

47. **(Currently amended)** A device for transmitting signals to speakers, the device comprising:

at least one input receiving an audio signal from at least one input device, the audio signal being encoded in a channel format having multiple channels;

a processor converting the received audio signal into one or more signals comprising an output signal of a selected single channel, the processor being capable of converting an audio signal from any of the following group: a television, a compact disc player, a digital video disc player, a MP3 player, a set-top box, a personal computer, and a stereo receiver;

a destination selection unit configured to select at least one speaker from a plurality of speakers to receive the output signal; and

a transmitter connected to the plurality of speakers via a network and configured to transmit the output signal to the selected speaker.

48. (Previously presented) The device of Claim 47, wherein the transmitter is connected to the plurality of speakers via a powerline network.

49. (Previously presented) The device of Claim 47, wherein the transmitter is connected to the plurality of speakers via a wireless network.

50. (Previously presented) The device of Claim 49, wherein the network is RF.

51. (Previously presented) The device of Claim 49, wherein the network is IR.

52. (Previously presented) The device of Claim 47, wherein the input is further configured to receive a textual signal and wherein the transmitter is configured to send the textual signal to a display device.

53. (Previously presented) The device of Claim 47, wherein the processor is further connected to a display device configured to be a user interface for the processor.

54. (Previously presented) The device of Claim 47, wherein the input is further configured to receive a video signal and wherein the transmitter is configured to send the video signal to a display device.

55. (Previously presented) The device of Claim 47, wherein the input is configured to receive an analog signal, wherein the device further comprises a converter configured to convert the analog signal into a digital signal.

56. (Previously presented) The device of Claim 47, wherein the audio signal is encoded in a channel format, wherein the processor is configured to decode the audio signal according to the channel format of the audio signal and generate the output signal.

57. (Previously presented) The device of Claim 56, wherein the audio signal is encoded in one of the following channel format: DTS, Dolby Digital, and SRS.

58. (Previously presented) The device of Claim 47, wherein the processor is configured to decode the audio signal and select the at least one speaker from the plurality of speakers for transmission based on a channel format of the audio signal.

59. (Previously presented) The device of Claim 47, wherein the destination selection unit is configured to select the at least one speaker based on user input.

60. (Previously presented) The device of Claim 47, further comprising an amplifier module, wherein the processor is configured to process the audio signal and to send a first portion of the output signal to the amplifier module and a second portion of the output signal to the transmitter.

61. (Previously presented) The device of Claim 47, further comprising a plurality of connectors and an input selector, wherein at least two of the connectors are configured to connect to different devices, and wherein the input selector is reconfigurable by a user to select one of the connectors and receive an audio signal from the selected connector.

62. (Previously presented) The device of Claim 61, wherein the connectors are configured to connect to at least one of the following inputs: analog, digital, SPDIF, and an inter IC sound (I²S) format.

63. (Previously presented) The device of Claim 62, wherein the device is located inside or proximate to at least one of the following input devices: a television, a compact disc player, a digital video disc player, a MP3 player, a set-top box, a personal computer, and a stereo receiver.

64. (Previously presented) The device of Claim 47, wherein the processor is configured to (a) extract characteristic from the audio signal, (b) code the characteristic into a control signal,

(c) combine the audio signal with the control signal to form a combined signal, and (d) send the combined signal to the transmitter.

65. (Previously presented) The device of Claim 64, wherein the control signal comprises at least one of the following: a volume level, a balance level, a fader level, a sub-bass level,

66. (Previously presented) The device of Claim 64, wherein the transmitter is configured to transmit to at least two speakers, and wherein the processor is capable of generating different control signals to be transmitted to the two speakers.

67. (Previously presented) The device of Claim 47, wherein the transmitter is configured to transmit a combined control and audio signal to the selected speaker.

68. (Previously presented) The device of Claim 67, wherein the control signal comprises at least one of the following: a sound processing selection, an equalizer level, a power on, a power off, a time delay, and a phase delay.

69. (Previously presented) The device of Claim 47, wherein the plurality of speakers comprises a subwoofer.

70. (Previously presented) The device of Claim 47, wherein the plurality of speakers comprises a surround speaker.

71. (Previously presented) The device of Claim 47, wherein the transmitter further comprises an encryption module configured to encrypt the output signal prior to transmission.

72. (Previously presented) The device of Claim 47, wherein the processor is capable of generating a first and a second output signal, the first signal being different from the second signal, and the transmitter transmits the first output signal to a first speaker and the second output signal to a second speaker, the first and second speaker being selected from the plurality of speakers.

73. (Previously presented) The device of Claim 47, further comprising a control input receiving control signal from a user, wherein the processor generates the at least one output signal based on the control signal from a user.

74. (Previously presented) The device of Claim 47, wherein the transmitter is connected to a speaker via a receiver within or proximate to the speaker.

75. (**Currently amended**) A device for transmitting signals to speakers, the device comprising:

means for receiving an audio signal from at least one input device, the audio signal being encoded in a channel format having multiple channels;

means for converting the received audio signal into one or more signals comprising an output signal of a selected single channel, the converting means being capable of converting an audio signal from any of the following group: a television, a compact disc player, a digital video disc player, a MP3 player, a digital audio tape player, a set-top box, a personal computer, a stereo player, and a media center;

a destination selection unit configured to select at least one speaker from a plurality of speakers to receive the output signal; and

a transmitter connected to the plurality of speakers via a network and configured to transmit the output signal to the selected at least one speaker.

76. (Previously presented) A device comprising:

at least one input receiving an audio signal from at least one input device;

an amplifier module for audio signal amplifying;

a transmitter connected to at least one speaker via a network; and

a processor configured to process the audio signal and to generate a first output audio signal and a second output audio signal,

wherein the first output audio signal is sent to the amplifier module and the second output audio signal is sent to the speaker.

77. (Previously presented) The device of Claim 76, wherein the processor is capable of converting an audio signal from any of the following group: a television, a compact disc player, a digital video disc player, a MP3 player, a digital audio tape player, a set-top box, a personal computer, a stereo player, and a media center.

78. (Previously presented) The device of Claim 76, wherein the processor is capable of converting an audio signal from at least one of the following group: a television, a compact disc player, a digital video disc player, a MP3 player, a digital audio tape player, a set-top box, a personal computer, a stereo player, and a media center.

79. (Previously presented) The device of Claim 76, wherein the transmitter is connected to a plurality of speakers via a network, the device further comprising a destination selection unit

Application No.: 10/783,718
Filing Date: February 20, 2004

configured to select at least one speaker from the plurality of speakers to receive the output signal.

80. (Previously presented) The device of Claim 76, wherein the amplifier module is located in proximity to the transmitter.

81. (New) The device of Claim 76, wherein the second output audio signal is sent to the speaker via the transmitter.